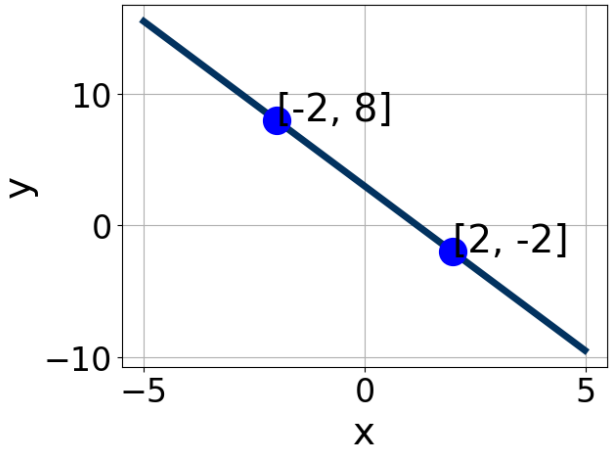
1. Write the equation of the line in the graph below in Standard Form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [4, 7]$, $B \in [-3.08, -1.52]$, and $C \in [-7.9, -5.6]$

B. $A \in [-8, 1]$, $B \in [-3.08, -1.52]$, and $C \in [-7.9, -5.6]$

C. $A \in [-1.5, 4.5]$, $B \in [-0.21, 1.61]$, and $C \in [1.6, 5.1]$

D. $A \in [4, 7]$, $B \in [1.83, 2.1]$, and $C \in [5.1, 9.2]$

E. $A \in [-1.5, 4.5]$, $B \in [-1.55, -0.71]$, and $C \in [-3.7, -1.5]$

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2. Find the equation of the line described below. Write the linear equation in the form $y = mx + b$ and choose the intervals that contain m and b.

Parallel to $8x - 7y = 13$ and passing through the point $(-7, 7)$.

A. $m \in [0.96, 1.48]$ $b \in [13.02, 14.67]$

B. $m \in [-1.2, -0.85]$ $b \in [-1.17, -0.99]$

C. $m \in [0.96, 1.48]$ $b \in [-15.32, -14.66]$

D. $m \in [0.74, 1.11]$ $b \in [14.79, 15.09]$

E. $m \in [0.96, 1.48]$ $b \in [14.79, 15.09]$

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3. Solve the linear equation below. Then, choose the interval that contains

the solution.

$$\frac{-6x+7}{2} - \frac{-5x+7}{6} = \frac{-7x+3}{8}$$

A. $x \in [-0.6, 0.5]$

B. $x \in [0.4, 3.3]$

C. $x \in [-4.2, -1.8]$

D. $x \in [1.6, 4]$

E. There are no real solutions.

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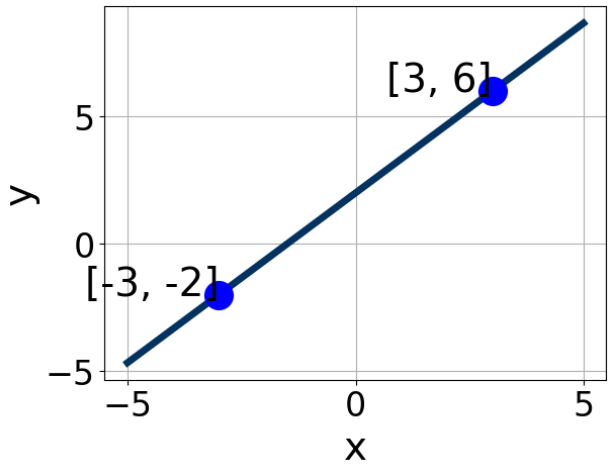
4. Write the equation of the line in the graph below in Standard Form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [-2.1, -1.2]$, $B \in [-2.7, -0.4]$, and $C \in [-2.1, -0.5]$

B. $A \in [2.6, 7.1]$, $B \in [2.5, 5.2]$, and $C \in [4.8, 9.5]$

C. $A \in [-2.1, -1.2]$, $B \in [0.5, 1.4]$, and $C \in [-0.1, 2.9]$

D. $A \in [2.6, 7.1]$, $B \in [-3.2, -2.6]$, and $C \in [-7.8, -4]$

E. $A \in [-4.9, -3.5]$, $B \in [2.5, 5.2]$, and $C \in [4.8, 9.5]$

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5. Find the equation of the line described below. Write the linear equation in the form $y = mx + b$ and choose the intervals that contain m and b.

Parallel to $7x - 5y = 7$ and passing through the point $(7, -4)$.

A. $m \in [0.83, 2.03]$ $b \in [12.9, 16.6]$

B. $m \in [-2.1, -1.18]$ $b \in [5.4, 7.1]$

C. $m \in [0.59, 0.78]$ $b \in [-15.3, -13.5]$

D. $m \in [0.83, 2.03]$ $b \in [-15.3, -13.5]$

E. $m \in [0.83, 2.03]$ $b \in [-11.2, -10.6]$

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6. Solve the linear equation below. Then, choose the interval that contains the solution.

$$\frac{3x+4}{3} - \frac{-7x-7}{5} = \frac{5x-9}{2}$$

A. $x \in [44.33, 46.33]$

B. $x \in [-4.45, -0.45]$

C. $x \in [67.33, 78.33]$

D. $x \in [197, 204]$

E. There are no real solutions.

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7. First, find the equation of the line containing the two points below. Then, write the equation in the form $y = mx+b$ and choose the intervals that contain m and b.

$$(-2, -10) \text{ and } (-9, 11)$$

A. $m \in [2, 12]$ $b \in [33, 41]$

B. $m \in [-6, -2]$ $b \in [10, 17]$

C. $m \in [-6, -2]$ $b \in [-20, -9]$

D. $m \in [-6, -2]$ $b \in [-8, -6]$

E. $m \in [-6, -2]$ $b \in [19, 23]$

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8. Solve the equation below. Then, choose the interval that contains the solution.

$$-2(-8x + 12) = -5(-18x - 16)$$

A. $x \in [-1.56, -1.34]$

B. $x \in [-1.1, -0.59]$

C. $x \in [0.61, 1.06]$

D. $x \in [-0.75, -0.25]$

E. There are no real solutions.

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9. First, find the equation of the line containing the two points below. Then, write the equation in the form $y = mx+b$ and choose the intervals that contain m and b.

$$(7, -6) \text{ and } (10, -5)$$

A. $m \in [0.19, 0.59]$ $b \in [-9.5, -7.3]$

B. $m \in [0.19, 0.59]$ $b \in [-14.2, -12.1]$

C. $m \in [0.19, 0.59]$ $b \in [6.3, 9.3]$

D. $m \in [0.19, 0.59]$ $b \in [-16.5, -13.7]$

E. $m \in [-0.48, -0.14]$ $b \in [-3, -0.1]$

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10. Solve the equation below. Then, choose the interval that contains the solution.

$$-5(12x + 6) = -2(3x + 11)$$

A. $x \in [-0.22, 0]$

B. $x \in [-1.08, -0.8]$

C. $x \in [0.85, 1.13]$

D. $x \in [-0.81, -0.78]$

E. There are no real solutions.
